Active Recombinant Human VEGFD Protein

Cat. No. VEGFD-198V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VEGFD Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	Vascular Endothelial Growth Factor (VEGF)-D, also known as c-Fos-induced growth factor (FIGF), is a member of the PDGF/VEGF growth factor family. It is expressed highly in lung, heart and small intestine, and at lower levels in skeletal muscle, colon and pancreas. It binds to VEGFR-2 and VEGFR-3 receptors and activates downstream signals. VEGF-D is a growth factor active in angiogenesis, lymphangiogenesis and endothelial cell growth. It is involved in many developmental and physiological processes including the formation of venous and lymphatic vascular systems during embryogenesis and the maintenance of differentiated lymphatic endothelium in adults. In tumor pathology, it has been reported to play a role in restructuring of lymphatic channels and regional lymph node metastasis.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 1 μg/mL, measured in a cell proliferation assay using HUVEC cells.
Molecular Mass	18-19 kDa, observed by reducing SDS-PAGE.
AA Sequence	FAATFYDIETLKVIDEEWQRTQCSPRETCVEVASELGKSTNTFFKPPCVNVFRCGGC CNEESLICMNTSTSYISKQLFEISVPLTSVPELVPVKVANHTGCKCLPTAPRHPYSIIR

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Human VEGF-D remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human VEGF-D should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	VEGFD vascular endothelial growth factor D [Homo sapiens (human)]
Official Symbol	VEGFD
Synonyms	VEGFD; vascular endothelial growth factor D; FIGF; VEGF-D; vascular endothelial growth factor D; c-fos induced growth factor (vascular endothelial growth factor D)
Gene ID	2277
mRNA Refseq	NM_004469
Protein Refseq	NP_004460
MIM	300091

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UniProt ID	O43915

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